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Exam : **AAIA**

Title : ISACA Advanced in AI Audit
(AAIA)

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ISACA AAIA Exam Syllabus Topics:

| Topic | Details |
|---------|---|
| Topic 1 | <ul style="list-style-type: none">AI Operations: It covers managing AI-specific data needs—including collection, quality, security, and classification—applying development lifecycle methodologies with privacy and security by design, change and incident management, testing AI solutions, identifying AI-related threats and vulnerabilities, and supervising AI deployments. |
| Topic 2 | <ul style="list-style-type: none">Auditing Tools and Techniques: This section of the exam measures the skills of AI auditors and centers on auditing AI systems using appropriate tools and methods. It includes audit planning and design, sampling methodologies specific to AI, collecting audit evidence, using data analytics for quality assurance, and producing AI audit outputs and reports, including follow-up and quality control measures. |

Topic 3

- **AI GOVERNANCE AND RISK:** It encompasses understanding different AI models and their life cycles, guiding AI strategy, defining roles and policies, managing AI-related risks, overseeing data privacy and governance, and ensuring adherence to ethical practices, standards, and regulations.

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ISACA Advanced in AI Audit Sample Questions (Q37-Q42):

NEW QUESTION # 37

An organization deploys an AI recruitment platform to screen job applicants. The IS auditor identifies that the platform's decisions may be influenced by model bias. Which of the following risk mitigation strategies is BEST for the auditor to recommend?

- A. Retrain the AI model using an external data set certified for inclusivity and fairness.
- B. Require manual reviews of all AI-generated recruitment decisions before hiring is finalized.
- **C. Implement a process to periodically test the AI system for biases and adjust parameters as needed.**
- D. Suspend the use of the AI system until the training data can be verified for fairness and compliance.

Answer: C

Explanation:

Periodic testing and monitoring for bias is a sustainable, proactive strategy aligned with best practices outlined in the AAIA™ Study Guide. This approach ensures that the AI system remains compliant over time, even as data and hiring conditions change.

"Ongoing fairness assessments help detect emerging biases and ensure that the AI model maintains equitable decision-making standards. Periodic testing also allows organizations to take corrective action before regulatory or reputational damage occurs."

Suspending the system (B) or relying solely on external datasets (C) are temporary or limited in scope.

Manual reviews (D) are effective but do not solve the root issue. Therefore, A provides a comprehensive, audit-aligned solution.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "Ethical and Legal Considerations in AI," Subsection: "Bias Mitigation and Monitoring"

NEW QUESTION # 38

A car manufacturer uses an AI model to predict maintenance needs for its vehicles. Which of the following techniques can an IS auditor apply to MOST effectively verify the AI model's decisions to stakeholders?

- A. Using K-means algorithms to group vehicles based on mileage or engine temperature for maintenance patterns
- B. Utilizing support vector machines (SVM) to classify vehicles based on maintenance urgency
- C. Using neural network visualization to show how the AI model processes data through its layers
- **D. Using local interpretable model-agnostic explanation (LIME) to analyze how specific features contribute to predictions**

Answer: D

NEW QUESTION # 39

Which of the following is the MOST important course of action for an organization prior to allowing end users to utilize an AI tool?

- A. Implement baseline performance metrics.
- **B. Develop an AI policy with guidelines on appropriate use.**
- C. Ensure a cybersecurity insurance clause is in place to include the use of AI.
- D. Determine the impact to the disaster recovery plan (DRP).

Answer: B

Explanation:

An AI usage policy sets the foundation for safe, ethical, and effective AI deployment. According to the AAIA™ Study Guide, having an AI policy in place ensures that users understand acceptable behaviors, limitations, and responsibilities when interacting with AI tools.

"AI acceptable use policies promote governance by clearly outlining the dos and don'ts of AI interaction, preventing misuse and aligning user activity with organizational values and compliance standards." Other actions (B, C, D) are important in operations and risk management but should follow the establishment of governance protocols through a usage policy. Hence, A is the highest-priority prerequisite.

Reference: ISACA Advanced in AI Audit™ (AAIA™) Study Guide, Section: "AI Governance and Risk Management," Subsection: "Policy Frameworks for End-User AI Interaction"

NEW QUESTION # 40

Which role is BEST suited to define the implementation roadmaps for adopting AI solutions?

- A. Product management
- B. Internal audit
- C. Steering committee
- D. Risk management committee

Answer: C

Explanation:

A steering committee is responsible for enterprise-wide strategic decisions, technology alignment, investment prioritization, and governance oversight.

AAIA states that AI implementation roadmaps must be driven by a group that can evaluate:

- * Organizational strategy
- * Technology readiness
- * Budget allocations
- * Risk appetite
- * Regulatory obligations
- * Cross-functional impacts

The risk committee (A) focuses only on risk, not implementation. Product management (C) has a narrow scope. Internal audit (D) evaluates controls, not roadmaps.

Thus, the steering committee is the appropriate authority.

References:

AAIA Domain 1: AI Governance Structures

AAIA Domain 4: Strategic Alignment and Oversight

NEW QUESTION # 41

Which of the following should be done FIRST when an attacker exfiltrates sensitive information from an AI model?

- A. Implement rate limiting and query restrictions to reduce exploitation attempts.
- B. Inform regulators and affected stakeholders of a potential data breach.
- C. Rebuild the AI model using a more secure architecture.
- D. Isolate impacted systems until the attack vector is identified.

Answer: D

NEW QUESTION # 42

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